

	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 110197.402C1	APPLICATION NO. 10/612,713
	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS David A. Tirrell et al.	
			FILING DATE July 1, 2003	GROUP ART UNIT 1636

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AA	5,370,995	12/06/94	Hennecke et al.	435	69.1	

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	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Bain, J., et al., "Biosynthetic Site-specific Incorporation of a Non-natural Amino Acid into a Polypeptide," <i>J. Am. Chem. Soc.</i> , 111:8013-8014, 1989.
AD	Barton, D., et al., "Synthesis of Novel $\alpha$ -Amino-Acids and Derivatives Using Radical Chemistry: Synthesis of L- and D- $\alpha$ -Amino-Adipic Acids, L- $\alpha$ -aminopimelic Acid and Appropriate Unsaturated Derivatives," <i>Tetrahedron</i> , 43:4297-4308, 1987.
AE	Bradley, D., et al., tRNA <sup>Gln</sup> Su <sup>+</sup> 2 Mutants that Increase Amber Suppression," <i>J. Bacteriol.</i> , 145(2):704-12, February 1981.
AF	Brick, P., et al., "Structure of Tyrosyl-tRNA Synthetase Refined at 2.3 Å Resolution. Interaction of the Enzyme with the Tyrosyl Adenylate Intermediate," <i>J. Mol. Biol.</i> , 208(1):83-98, 1989.
AG	Budisa, N., et al., "Bioincorporation of Telluromethionine into Proteins: a Promising New Approach for X-ray Structure Analysis of Proteins," <i>J Mol Biol.</i> , 270(4):616-23, July 25, 1997.
AH	Budisa, N., et al., "High-level Biosynthetic Substitution of Methionine in Proteins by its Analogs 2-aminohexanoic Acid, Selenomethionine, Telluromethionine and Ethionine in <i>Escherichia coli</i> ," <i>Eur. J. Biochem</i> , 230(2):788-796, 1995.
AI	Budisa, N., et al., "Residue-specific Bioincorporation of Non-natural, Biologically Active Amino Acids into Proteins as Possible Drug Carriers: Structure and Stability of the Per-thiaproline Mutant of Annexin V," <i>Proc Natl Acad Sci U S A</i> , 95(2):455-9, January 20, 1998.
AJ	Budisa, N., et al., "Toward the Experimental Codon Reassignment in Vivo: Protein Building with an Expanded Amino Acid Repertoire," <i>FASEB J.</i> , 13(1):41-51, January 1999.
AK	Christie, B., et al., "Synthesis of Optically Pure Pipecolates from L-Asparagine. Application to the Total Synthesis of (+)-Apovincamine through Amino Acid Decarboxylation and Iminium Ion Cyclization," <i>J. Org. Chem.</i> , 50:1239-1246, 1985.

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				YES	NO
BB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Cornish, V., et al., "Site-specific Protein Modification Using a Ketone Handle," <i>J. Am. Chem. Soc.</i> , 118:8150-8151, 1996.
BD	Doctor, B., et al., "Species Specificity Of Amino Acid Acceptor Ribonucleic Acid And Aminoacyl Soluble Ribonucleic Acid Synthetases," <i>J Biol Chem.</i> , 238:3677-81, November 1963.
BE	Döring, V., et al., "Enlarging the Amino Acid set of Escherichia coli by Infiltration of the Valine Coding Pathway," <i>Science</i> , 292(5516):501-4, April 20, 2001.
BF	Dougherty, D., "Unnatural Amino Acids as Probes of Protein Structure and Function," <i>Curr Opin Chem Biol.</i> , 4(6):645-52, December 2000.
BG	Ellman, J., et al., "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specifically Into Proteins," <i>Methods Enzymol.</i> , 202:301-36, 1991.
BH	Ellman, J., et al., "Site-specific Incorporation of Novel Backbone Structures into Proteins," <i>Science</i> , 255(5041):197-200, January 10, 1992.
BI	England, P., et al., "Backbone Mutations in Transmembrane Domains of a Ligand-gated Ion Channel: Implications for the Mechanism of Gating," <i>Cell</i> , 96(1):89-98, January 8, 1999.
BJ	Fechter, P., et al., "Major Tyrosine Identity Determinants in Methanococcus Jannaschii and Saccharomyces cerevisiae tRNA(Tyr) are Conserved but Expressed Differently," <i>Eur J Biochem.</i> , 268(3):761-7, February 2001.
BK	Francisco, J., et al., "Production and Fluorescence-activated Cell Sorting of Escherichia coli Expressing a Functional Antibody Fragment on the External Surface," <i>Proc Natl Acad Sci U S A.</i> , 90(22):10444-8, November 15, 1993.
BL	Friedman, O., et al., "Synthesis of Derivatives of Glutamine as Model Substrates for Anti-Tumor Agents," <i>J. Am. Chem. Soc.</i> , 81:3750-3752, 1959.
BM	Furter, R., "Expansion of the Genetic Code: Site-directed p-fluoro-phenylalanine Incorporation in Escherichia coli," <i>Protein Sci.</i> , 7(2):419-26, February 1998.

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	CA						
<b>FOREIGN PATENT DOCUMENTS</b>							
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	CB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	CC	Gabriel, K., et al., "A Set of Plasmids Constitutively Producing Different RNA Levels in Escherichia coli," <i>J Mol Biol.</i> , 290(2):385-9, July 9, 1999.					
	CD	Gallivan, J., et al., "Site-specific Incorporation of Biotinylated Amino Acids to Identify Surface-exposed Residues in Integral Membrane Proteins," <i>Chem Biol.</i> , 4(10):739-49, October 1997.					
	CE	Gay, G., et al., "Modification of the Amino Acid Specificity of Tyrosyl-tRNA Synthetase by Protein Engineering," <i>FEBS Letters</i> , 318:167-171, 1993.					
	CF	Giegé, R., et al., "Aspartate Identity of Transfer RNAs," <i>Biochimie</i> 78(7):605-23, 1996.					
	CG	Giegé, R., et al., "Universal Rules and Idiosyncratic Features in tRNA Identity," <i>Nucleic Acids Res.</i> , 26(22):5017-35, November 15, 1998.					
	CH	Guckian, K., et al., "Highly Precise Shape Mimicry by a Difluoro-toluene Deoxynucleoside, a Replication-Competent Substitute for Thymidine," <i>Angew Chem. Int. Ed. Engl.</i> 36(24):2825-2828, 1997.					
	CI	Hamano-Takaku, F., et al., "A Mutant Escherichia coli Tyrosyl-tRNA Synthetase Utilizes the Unnatural Amino Acid Azatyrosine more Efficiently than Tyrosine," <i>J Biol Chem.</i> , 275(51):40324-8, December 22, 2000.					
	CJ	Hartley, R., "Barnase and Barstar. Expression of its Cloned Inhibitor Permits Expression of a Cloned Ribonuclease," <i>J Mol Biol.</i> , 202(4):913-5, August 20, 1988.					
	CK	Hohsaka, T., et al., "Efficient Incorporation of Nonnatural Amino Acids with Large Aromatic Groups into Streptavidin in In Vitro Protein Synthesizing Systems," <i>J. Am. Chem. Soc.</i> , 121:34, 1999.					
	CL	Ibba, M., et al., "Relaxing the Substrate Specificity of an Aminoacyl-tRNA Synthetase Allows in vitro and in vivo Synthesis of Proteins Containing Unnatural Amino Acids," <i>FEBS Lett.</i> , 364(3):272-5, May 15, 1995.					
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				YES	NO
DB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Ibba, M., et al., "Substrate Specificity is Determined by Amino acid Binding Pocket Size in Escherichia coli Phenylalanyl-tRNA Synthetase," <i>Biochemistry</i> , 33(23):7107-12, June 14, 1994.
DD	Ibba, M., "Strategies for in vitro and in vivo Translation with Non-natural Amino Acids," <i>Biotechnol Genet Eng Rev</i> . 13:197-216, December 1995.
DE	Jakubowski, H., et al., "Editing of Errors in Selection of Amino Acids for Protein Synthesis," <i>Microbiol Rev.</i> , 56(3):412-29, September 1992.
DF	Jeruzalmi, D., et al., "Structure of T7 RNA Polymerase Complexed to the Rranscriptional Inhibitor T7 Lysozyme," <i>EMBO J.</i> , 17(14):4101-13, July 15, 1998.
DG	Kiick, K., et al., "Protein Engineering by In Vivo Incorporation of Non-Natural Amino Acids: Control Of Incorporation of Methionine Analogues by Methionyl-tRNA Synthetase," <i>Tetrahedron</i> , 56:9487-9493, 2000.
DH	King, F., et al., "A New Synthesis of Glutamine and of $\gamma$ -Dipeptides of Glutamic Acid from Phthallylated Intermediates," <i>J. Chem. Soc.</i> , 4:3315-3319, 1949.
DI	Kleeman, T., et al., "Human Tyrosyl-tRNA Synthetase Shares Amino Acid Sequence Homology with a Putative Cytokine," <i>J Biol Chem.</i> , 272(22):14420-5, May 30, 1997.
DJ	Kleina, L., et al., "Construction of Escherichia coli Amber Suppressor tRNA Genes. II. Synthesis of Additional tRNA Genes and Improvement of Suppressor Efficiency," <i>J Mol Biol.</i> , 213(4):705-17, June 20, 1990.
DK	Kool, E., "Synthetically Modified DNAs as Substrates for Polymerases," <i>Curr Opin Chem Biol.</i> , 4(6):602-8, December 2000.
DL	Koskinen, et al., "Synthesis of 4-Substituted Prolines as Conformationally Constrained Amino Acid Analogues," <i>J. Org. Chem.</i> 54:1859-1866, 1989.
DM	Kowal, A., et al., "Exploiting Unassigned Codons in Micrococcus Luteus for tRNA-based Amino Acid Mutagenesis," <i>Nucleic Acids Res.</i> , 25(22):4685-9, November 15, 1997.

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<b>FOREIGN PATENT DOCUMENTS</b>							
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						YES	NO
	EB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	EC	Kowal, A., et al., "Twenty-first Aminoacyl-tRNA Synthetase-suppressor tRNA Pairs for Possible Use in Site-specific Incorporation of Amino Acid Analogues into Proteins in Eukaryotes and in Eubacteria," <i>Proc Natl Acad Sci U S A.</i> , 98(5):2268-73, February 27, 2001.					
	ED	Lee, J-Y., et al., "Novel Biological Process for L-DOPA Production from L-Tyrosine by <i>p</i> -hydroxyphenylacetate 3-hydroxylase," <i>Biotechnology letters</i> , 20(5):479-482, May 1998.					
	EE	Liu, D., et al., "Characterization of an 'orthogonal' Suppressor tRNA Derived from <i>E. coli</i> tRNA <sub>2<sup>Gln</sup></sub> ," <i>Chem Biol.</i> , 4(9):685-91, September 1997.					
	EF	Lorincz, M., et al., "Enzyme-generated Intracellular Fluorescence for Single-cell Reporter Gene Analysis Utilizing <i>Escherichia Coli</i> Beta-glucuronidase," <i>Cytometry</i> , 24(4):321-9, August 1, 1996.					
	EG	Lu, T., et al., "Probing Ion Permeation and Gating in a K <sup>+</sup> Channel with Backbone Mutations in the Selectivity Filter," <i>Nat Neurosci.</i> , 4(3):239-46, March 2001.					
	EH	Ma, C., et al., "In Vitro Protein Engineering Using Synthetic tRNA <sup>Ala</sup> with Different Anticodons," <i>Biochemistry</i> , 32(31):7939-45, August 10, 1993.					
	EI	Matsoukas, J., et al., "Differences in Backbone Structure Between Angiotensin II Agonists and Type 1 Antagonists," <i>J Med Chem.</i> , 38(23):4660-9, November 10, 1995.					
	EJ	McMinn, D., et al., "Efforts Toward Expansion of the Genetic Alphabet: DNA Polymerase Recognition of a Highly Stable, Self-Pairing Hydrophobic Base," <i>J. Am. Chem. Soc.</i> , 121:11585-11586, 1999.					
	EK	Meggers, E., et al., "A Novel Copper-Mediated DNA Base Pair," <i>J. Am. Chem. Soc.</i> , 122:10714-15, 2000.					
	EL	Mendel, D., et al., "Site-directed Mutagenesis with an Expanded Genetic Code," <i>Annu Rev Biophys Biomol Struct.</i> , 24:435-62, 1995.					
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				YES	NO
FB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	Miller, J., et al., "Flash Decaging of Tyrosine Sidechains in an Ion Channel," <i>Neuron</i> , 20(4):619-24, April 1998.
FD	Minks, C., et al., "Noninvasive Tracing of Recombinant Proteins with "Fluorophenylalanine-fingers," <i>Anal Biochem.</i> , 284(1):29-34, August 15, 2000.
FE	Moore, B., et al., "Quadruplet Codons: Implications for Code Expansion and the Specification of Translation Step Size," <i>J Mol Biol.</i> , 298(2):195-209, April 28, 2000.
FF	Nickitenko, A., et al., 2 Å Resolution Structure of DppA, a Periplasmic Dipeptide Transport/Chemosensory Receptor," <i>Biochemistry</i> , 34(51):16585-95, December 26, 1995.
FG	Nilsson, B., et al., "A Synthetic IgG-binding Domain Based on Staphylococcal Protein A," <i>Protein Eng.</i> , 1(2):107-13, Feb-Mar 1987.
FH	O'Mahony, D., et al., "Glycine tRNA Mutants with Normal Anticodon Loop Size Cause -1 Frameshifting," <i>Proc Natl Acad Sci U S A.</i> , 86(20):7979-83, October 1989.
FI	Ogawa, A., et al., "Efforts Toward the Expansion of the Genetic Alphabet: Information Storage and Replication with Unnatural Hydrophobic Base Pairs," <i>J. Am. Chem. Soc.</i> 122:3274-3287, 2000.
FJ	Ogawa, A., et al., "Rational Design of an Unnatural Base Pair with Increased Kinetic Selectivity," <i>J. Am. Chem. Soc.</i> , 122:8803-8804, 2000.
FK	Ohno, S., et al., "Co-expression of Yeast Amber Suppressor tRNA <sup>Tyr</sup> and Tyrosyl-tRNA Synthetase in Escherichia coli: Possibility to Expand the Genetic Code," <i>J Biochem (Tokyo)</i> . 124(6):1065-8, December 1, 1998.
FL	Pastrnak, M., et al., "A New Orthogonal Suppressor tRNA/aminoacyl-tRNA Synthetase Pair for Evolving an Organism with an Expanded Genetic Code," <i>Helv. Chim. Acta</i> , 83:2277-2286, 2000.
FM	Pastrnak, M., et al., "Phage Selection for Site-specific Incorporation of Unnatural Amino Acids into Proteins In Vivo," <i>Bioorg Med Chem.</i> , 9(9):2373-9, 2001.

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	GB						
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	GC	Saks, M., et al., "An Engineered Tetrahymena tRNA <sup>Gln</sup> for in Vivo Incorporation of Unnatural Amino Acids into Proteins by Nonsense Suppression," <i>J Biol Chem.</i> , 271(38):23169-75, September 20, 1996.					
	GD	Santoro, S., et al., "An Efficient System for the Evolution of Aminoacyl-tRNA Synthetase Specificity," <i>Nat. Biotechnol.</i> , 20(10):1044-8, October 20, 2000.					
	GE	Sayers, J., et al., "5'-3' Exonucleases in Phosphorothioate-based Oligonucleotide-directed Mutagenesis," <i>Nucleic Acids Res.</i> , 16(3):791-802, February 11, 1988.					
	GF	Shao, J., et al., "Unprotected Peptides as Building Blocks for the Synthesis of Peptide Dendrimers with Oxime, Hydrazone, and Thiazolidine Linkages," <i>J. Am. Chem. Soc.</i> , 117(14):3893-3899, 1995.					
	GG	Sharma, N., et al., "Efficient Introduction of Aryl Bromide Functionality into Proteins in Vivo," <i>FEBS Lett.</i> , 467(1):37-40, February 4, 2000.					
	GH	Sieber, V., et al., "Libraries of Hybrid Proteins from Distantly Related Sequences," <i>Nat Biotechnol.</i> , 19(5):456-60, May 2001.					
	GI	Sprinzl, M., et al., "Compilation of tRNA Sequences and Sequences of tRNA Genes," <i>Nucleic Acids Res.</i> , 26(1):148-53, January 1, 1998.					
	GJ	Steer, B., et al., "Major Anticodon-binding Region Missing from an Archaeobacterial tRNA Synthetase," <i>J Biol Chem.</i> , 274(50):35601-6, December 10, 1999.					
	GK	Subasinghe, N., et al., "Quisqualic Acid Analogues: Synthesis of $\beta$ -heterocyclic 2-aminopropanoic Acid Derivatives and their Activity at a Novel Quisqualate-sensitized Site," <i>J Med Chem.</i> , 35(24):4602-7, November 27, 1992.					
	GL	Sussman, J., et al., "Crystal Structure of Yeast Phenylalanine Transfer RNA. I. Crystallographic Refinement," <i>J Mol Biol.</i> , 123(4):607-30, August 5, 1978.					
	GM	Switzer, C., et al., "Enzymatic Incorporation of a New Base Pair into DNA and RNA," <i>J. Am. Chem. Soc.</i> , 111:8322-8323, 1989.					
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HC	Tae, E., et al., "Efforts Toward Expansion of the Genetic Alphabet: Replication of DNA with Three Base Pairs," <i>J Am Chem Soc.</i> , 123(30):7439-40, August 1, 2001.
HD	Tang, Y., et al., "Fluorinated Coiled-Coil Proteins Prepared In Vivo Display Enhanced Thermal and Chemical Stability," <i>Angew Chem Int Ed Engl.</i> , 40(8):1494-1496, April 17, 2001.
HE	Turcatti, G., et al., "Probing the Structure and Function of the Tachykinin Neurokinin-2 Receptor through Biosynthetic Incorporation of Fluorescent Amino Acids at Specific Sites," <i>J Biol Chem.</i> , 271(33):19991-8, August 16, 1996.
HF	Van Hest, J., et al., "Efficient Incorporation of Unsaturated Methionine Analogues into Proteins in Vivo," <i>J. Am. Chem. Soc.</i> , 122:1282-1288, 2000.
HG	Van Hest, J., et al., "Efficient Introduction of Alkene Functionality into Proteins in vivo," <i>FEBS Lett.</i> , 428(1-2):68-70, May 22, 1998.
HH	Wakasugi, K., et al., "Genetic Code in Evolution: Switching Species-specific Aminoacylation with a Peptide Transplant," <i>EMBO J.</i> , 17(1):297-305, January 2, 1998.
HI	Wang, L., et al., "A New Functional Suppressor tRNA/aminoacyl-tRNA Synthetase Pair for the in Vivo Incorporation of Unnatural Amino Acids into Proteins," <i>J. Am. Chem. Soc.</i> , 122:5010-5011, 2000.
HJ	Wang, L., et al., "A General Approach for the Generation of Orthogonal tRNAs," <i>Chem Biol.</i> , 8(9):883-90, September 2001.
HK	Wang, L., et al., "Expanding the Genetic code of Escherichia coli," <i>Science</i> , 292(5516):498-500, April 20, 2001.
HL	Wang, L., et al., "Expanding the genetic code," <i>Chem Commun (Camb.)</i> , (1):1-11, January 7, 2002.
HM	Whelihan, E., et al., "Rescuing an Essential Enzyme-RNA Complex with a Non-essential Appended Domain," <i>EMBO J.</i> , 16(10):2968-74, May 15, 1997.
HN	Yarus, M., "Translational Efficiency of Transfer RNA's: Uses of an Extended Anticodon," <i>Science</i> , 218(4573):646-52, November 12, 1982.
HO	Zlokarnik, G., et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with Beta-lactamase as Reporter," <i>Science</i> , 279(5347):84-8, January 2, 1998.

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